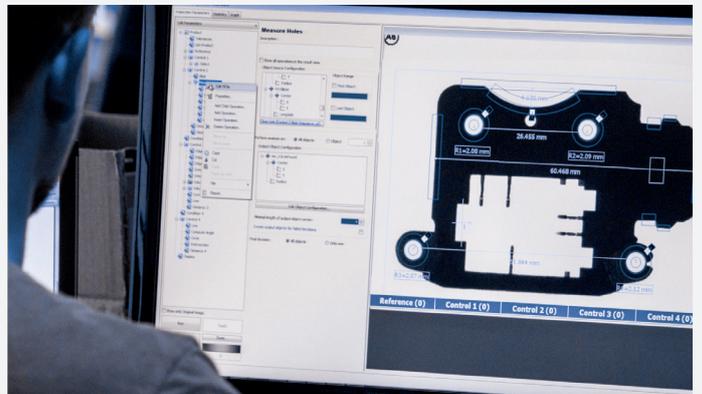# compar

excellence in machine vision & robotics

MACHINE VISION SOLUTION VISIONEXPERT®

A key component is the innovative machine vision software platform VISIONexpert®, allowing many degrees of freedom and offering various features for almost any requirement in the creation/configuration of robust test routines. This flexible PC-based solution has been developed by Compar for more than 30 years, and is constantly being improved.
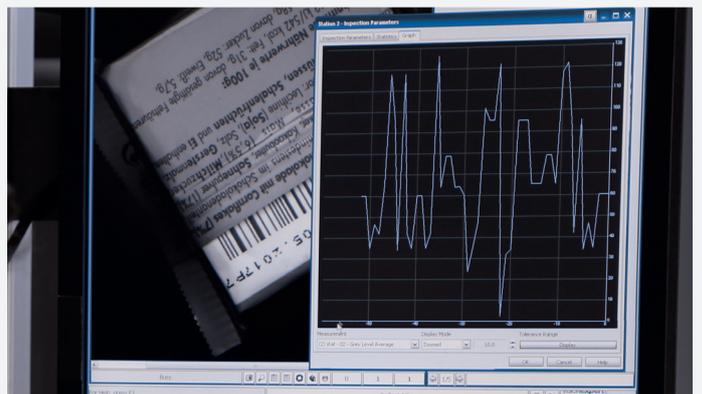
HIGHEST SCALABILITY

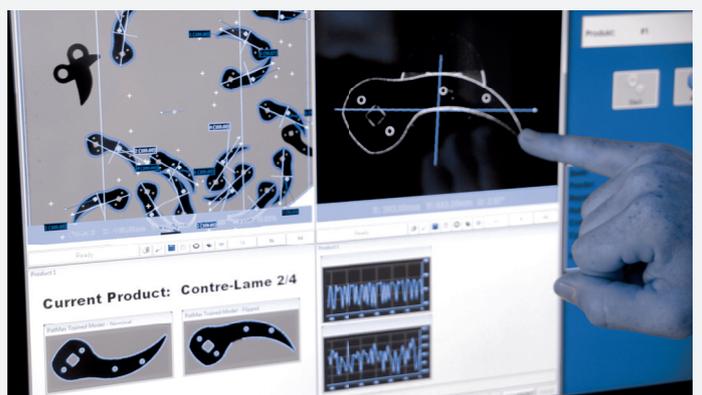Machine vision included in vertical market devices, OEM market vision solution.

EASY USABILITY

Customizable web-based interface for tablet & smartphone access.

HIGHEST EFFICIENCY

Fast implementation → cost optimized.

Comprehensive machine vision platform: VISION***expert***®

Mutual communication of actuators, sensors and systems is a basic requirement for industry 4.0 to work. This is exactly where Compar's image processing platform VISION***expert***® focuses. A very simple connectivity with various peripheries enables an efficient integration and faster prototyping. The connectivity options do not just include common industrial cameras and image processing libraries, but also process control and data management communication with industrial robots, PLCs, databases and higher-level systems.

Through the intuitive graphical user interface of VISION***expert***®, peripherals and equipment are addressed via drag & drop, inputs and outputs are connected via the mouse pointer and parameter sets are determined graphically. Thus, a complex workflow can be configured in minimum time. Development times, installation, and integration of vision systems and external equipment become shorter, clearer, more reliable and more economical.

Camera Interfaces
Standard cameras m/c, high-speed, UV/IR, line scan cameras, 3D cameras, interferometers, thermocameras, Cognex In-Sight → Firewire, USB, CameraLink, GigE, etc.

Communication Interfaces
WAGO I/O, RS232, Profibus, Profinet, TCP/IP, DeviceNet, Ethernet IP, etc.

Data Exchange
SQL/ODBC database connectivity, OPC data transfer, integration with supervisory ERP solutions.

3rd Party Cooperation
Controlling and leading third-party systems such as robots, laser cutting & marking systems as well as linear axes and feeding systems.

PC Based Solution
Windows based software runs on a RaspberryPi up to a high performance computer system depending on the customer's application requirements.

Standard Features
Image processing libraries from Euresys, Cognex, MVTec, OpenCV, and others can be leveraged. Extensive user administration, smart tools for calibration, image adjustment, or version control for jobs are default features. Nonstandard extensions can be flexibly configured at any time - no software development required.

Comprehensive Algorithm Library
Assembly inspection, 2D/3D measurement, DXF import, print & solder inspection, OCR/OCV, 1D and 2D code reading, robot vision, deep learning, X-Ray etc.

Medtech Compliance
Our systems are CFR 21 part 11 compliant - audit trails and automatic change tracking are standard features, according to the guidelines of GAMP.

REALIZED APPLICATIONS / EXAMPLES / MARKETS

watch making   packaging   medtech   automotive   pharma   non industrial